

Code B_2729

Department	Medical Science and Public Health
UniCa reference person	Olga Mulas
Project title in English	New approaches in diagnostics and monitoring of myeloproliferative diseases
Project title in Italian	Nuovi approcci diagnostici e di monitoraggio nelle malattie mieloproliferative
Subject area of reference (World University Ranking)	CLINICAL, PRE-CLINICAL AND HEALTH
Project summary and VPS' profile	<p>New techniques are on the horizon for detecting small leukemic clones in both acute leukemias and myeloproliferative disorders. A promising approach is based on digital polymerase chain reaction (PCR). Digital PCR (dPCR) is a breakthrough technology designed to provide absolute nucleic acid quantification. It is particularly useful to detect a low amount of target and therefore represents an alternative method for detecting measurable residual disease (MRD). Much evidence has encouraged the investigation of dPCR for MRD monitoring in many hematological malignancies, especially in those patients who can reach very deep molecular responses with pharmacological or cellular therapies. The project aims to further explore these themes as part of the educational training offered to the Medicine and Surgery course of studies and the Hematology graduate school at the University of Cagliari. The training will be conducted by an expert in the field, selected from various Italian centres where this method is implemented. This could help extend the use of the technique in hematology labs at Businco Hospital to increase competitiveness in the field.</p>
Proposed length of stay	Short visit of 8 days
Expected period of activity	February-June 2024
Academic position of the VPS'	Professor
Course of Study	Laurea magistrale a ciclo unico (5-6-year Master Degree), Scuola di specializzazione (Specialization Course)
Language of instruction	Italian